CLAIMS

- A method of protecting a file, comprising:
 requesting access to a file;
 accessing a vnode associated with the file; and
 executing a substitute routine associated with the vnode.
 - 2. The method of claim 1, wherein the substitute routine is associated with the request.
 - 3. The method of claim 1, wherein the vnode is a modified vnode.
 - 4. The method of claim 1, wherein executing includes protecting the file.
- 10 5. The method of claim 1, wherein executing includes blocking access to the file.
 - 6. The method of claim 1, wherein executing includes blocking write access to the file.
 - 7. The method of claim 1, wherein the vnode is associated with a substitute operations vector associated with the substitute routine.
- 15 8. The method of claim 1, wherein the vnode includes a pointer that points to a substitute operations vector associated with the substitute routine.
 - 9. The method of claim 1, wherein the vnode includes a pointer that points to a substitute operations vector that calls the substitute routine.
 - 10. The method of claim 1, further comprising configuring the file for protection.
- 20 11. The method of claim 10, wherein configuring includes: accessing the vnode associated with the file; and modifying the vnode.

- 12. The method of claim 1, further comprising:

 determining an operation to be protected; and

 modifying in the vnode a routine associated with the operation.
- 13. The method of claim 1, further comprising holding the vnode in memory.
- 5 14. The method of claim 1, further comprising saving an original operations vector.
 - 15. The method of claim 1, further comprising:

 determining whether the file exists;

 providing notification when the file is created if the file does not exist.
- 16. The method of claim 1, further comprising configuring the file for protection prior to runtime.
 - 17. The method of claim 1, further comprising: modifying the vnode.
 - 18. The method of claim 1, further comprising: associating the vnode with a substitute routine.
- 15 19. The method of claim 1, further comprising:

 associating the vnode with a substitute operations vector associated with a substitute routine.
- The method of claim 1, further comprising:
 modifying a pointer associated with the vnode to point to a substitute operations
 vector associated with a substitute routine.
 - 21. The method of claim 1, further comprising:

 modifying a pointer associated with the vnode to point to a substitute operations vector that calls a substitute routine.

- 22. The method of claim 1, further comprising removing protection of the file.
- 23. The method of claim 22, wherein removing includes: accessing the vnode associated with the file; and modifying the vnode.
- 5 24. The method of claim 1, further comprising releasing a hold on the vnode.
 - 25. The method of claim 1, further comprising: associating the vnode with an original routine.
 - 26. The method of claim 1, further comprising:
 associating the vnode with an original operations vector associated with an
- 10 original routine.
 - 27. The method of claim 1, wherein the vnode is a vnode in a UNIX system.
 - 28. The method of claim 1, wherein the vnode is an inode in a Linux system.
 - 29. A system for protecting a file, comprising a processor and memory configured to: request access to a file;
- access a vnode associated with the file; and execute a substitute routine associated with the vnode.
 - 30. A computer program product for protecting a file, the computer program product being embodied in a computer readable medium and comprising computer instructions for:
- 20 requesting access to a file;
 accessing a vnode associated with the file; and
 executing a substitute routine associated with the vnode.